

**PUNCTURE AND CUT RESISTANT SURGICAL GLOVE
WITH MACROSPHERE CAPTURE DEVICES**

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Abstract

10 A puncture and cut resistant surgical glove is provided
for protection against injury from sharp surgical instruments
and needles. The puncture and cut resistant surgical glove
includes overlaid arrays of adjacent substantially spherical
macrospheres. Each macrosphere has capture devices for
capturing the point of a sharp instrument. An elastomer
15 encapsulates the overlaid arrays of adjacent macrospheres.
Each macrosphere is either porous or formed of smaller
microspheres that are aggregated together to provide capture
devices. A polymer is coated over the aggregated microspheres
to give each macrosphere a smooth surface. The polymer and
20 microspheres provide a capture function for capturing the
points of sharp instruments. The puncture and cut resistant
surgical glove can be fabricated using low cost manufacturing
methods.